National Organization for Rare Disorders, Inc.®

NORD ● 100 Rt. 37, P.O. Box 8923 ● New Fairfield, CT 06812-8923 Tel: (203) 746-6518 • FAX: (203) 746-6481

TDD (for hearing impaired) (203) 746-6927

http://www.rarediseases.org • e-mail: orphan@rarediseases.org



May 16, 2001

Sandra Titus Food and Drug Administration Center for Drug Evaluation and Research (HFD-21) 5600 Fishers Lane Rockville, MD 20857

Dear Ms. Titus:

I will be appearing at the June 6, 2001 FDA Advisory Committee meeting for sodium oxybate, a treatment for narcolepsy and cataplexy. Attached is a written history of the drug for use by committee members. I will confine my oral comments to the lessons we have learned from restricted distribution systems for Clozaril and Thalidomide.

I look forward to seeing you on June 6.

Very truly yours,

askey heyer Abbey S. Meyers President

ASM:aa

Association Benign Essential Blepharospasm Research Foundation. Inc. Charcot-Marie-Tooth Association Chromosome 18 Registry and Research Society Cleft Palate Foundation Cornelia de Lange Syndrome Foundation, Inc. Cystinosis Foundation, Inc Dysautonomia Foundation, Inc. Dystonia Medical Research Foundation Dystrophic Epidermolysis Bullosa Research Association (D.E.B.R.A.) Ehlers-Danlos National Foundation Epilepsy Foundation of America Families of Spinal Muscular Atrophy Foundation Fighting Blindness Foundation for Ichthyosis & Related

MEMBER ORGANIZATIONS Alpha One Antitrypsin Deficiency

an Brain Tumor Association

Batten Disease Support & Research

an Laryngeal Papilloma Foundation American Syringomyelia Alliance Project Aplastic Anemia Foundation of America Association for Glycogen Storage Disease Association of Gastrointestinal Motility

National Association Alpha One Foundation

Disorder, Inc.

Skin Types (F.I.R.S.T.)
Genetic Alliance Guillain-Barre Syndrome Foundation International HHT Foundation International, Inc.

Hemochromatosis Foundation, Inc. Hereditary Disease Foundation Histiocytosis Association of America Huntington's Disease Society of America, Inc.
Immune Deficiency Foundation

International Fibrodysplasia Ossificans Progressiva (FOP) Association, Inc.
International Joseph Diseases Foundation. Inc

International Rett Syndrome Association Interstitial Cystitis Association of America, Inc Lowe Syndrome Association

Mastocytosis Society
Sthenia Gravis Foundation
Sproliferative Disease Research Center sitis Association of America Mucolipidosis Type IV Foundation (ML4)

Narcolepsy Network, Inc. National Adrenal Diseases Foundation National Alopecia Areata Foundation National Ataxia Foundation National Foundation for Ectoderma Dysplasias

National Hemophilia Foundation National Incontinentia Pigmenti Foundation National Marfan Foundation National Mucopolysaccharidoses Society, Inc. National Multiple Sclerosis Society National Neurofibromatosis Foundation National PKU News

National PKU News
National Sjogren's Syndrome Association
National Spasmodic Torticollis Association
National Tay-Sachs & Allied Diseases
Association, Inc.
National Urea Cycle Disorders Foundation

Neurofibromatosis Inc.

Osteogenesis Imperfecta Foundation Parkinson's Disease Foundation, Inc. Prader-Willi Syndrome Association Pulmonary Hypertension Association PXE International, Inc.

Reflex Sympathetic Dystrophy Syndrome Association

Scleroderma Foundation, Inc.
Sickle Cell Disease Association of America, Inc. Sturge Weber Foundation The Steven Johnson Foundation Tourette Syndrome Association, Inc. Trigeminal Neuralgia Association

United Leukodystrophy Foundation, Inc United Mitochondrial Disease Foundation VHL Family Alliance

Wegener's Granulomatosis Support Group, Inc. Williams Syndrome Association Wilson's Disease Association

Acid Maltase Deficiency Association ALS Association/Greater Philadelphia Chapter

erican Autoimmune Related Diseases American Behoet's Disease Association.

American Self-Help Clearinghouse

Angel view Crippled Children's Foundation Ataxia Telangiectasia Children's Project Canadian Organization for Rare Disorders Children's Living with Inherited Metobolic Diseases Childern's Medical Library Children's PKU Network Chromosome Deletion Outreach, Inc.

Chronic Granulomatous Disease Association, Inc.
Consortium of Multiple Sclerosis Centers Contact A Family Cooley's Anemia Foundation Cushing Support & Research Foundation
Family Caregiver Alliance

Family Support System for North Carolina

Freeman-Sheldon Parent Support Group Hydrocephalus Association ternational Foundation for Alternating Hemiplegia of Childhood Klippel-Trenaunay Support Group Late Onset Tay-Sachs Foundation Les Turner ALS Foundation, Inc.
National Association for Pseudoxantho

Associate Members

National Gaucher Foundation

National Patient Air Transport Helpline National Spasmodic Dysphonia Association Organic Acidemia Assocation Osteoporosis and Related Bone Diseases National Resource Center Parents Available to Help (PATH) Parent to Parent of New Zealand Rare and Expensive Disease Manag Recurrent Respiratory Papillomatosis

Takayasu's Arteritis Association
Taiwan Foundation for Rare Disorders Treacher Collins Foundation Restless Legs Syndrome Foundation Sarcoid Networking Association

Associations are joining continuously. For newest listing, please contact the NORD office

Shwachman Syndrome Support Group Sickle Cell Disease Assocation of Texas

Society For Progressive Supranuclea

Palsy, Inc. Sotos Syndrome Support Assoc

Gulf Coast

National Organization for Rare Disorders, Inc.®

NORD ● 100 Rt. 37, P.O. Box 8923 ● New Fairfield, CT 06812-8923 Tel: (203) 746-6518 • FAX: (203) 746-6481

TDD (for hearing impaired) (203) 746-6927

http://www.rarediseases.org • e-mail: orphan@rarediseases.org

Testimony by Abbey S. Meyers, President National Organization for Rare Disorders (NORD)

into the light . . . ®

Regarding Xyrem (sodium oxybate), Orphan Medical Inc.

> Before the **FDA Peripheral & Central Nervous System Drugs Advisory Committee**

> > June 6, 2001

A TWENTY YEAR SAGA

Sodium Oxybate was one of the original therapeutic compounds that led to enactment of the Orphan Drug Act of 1983. Its value in treating the most devastating symptoms of Narcolepsy, known as Cataplexy, has been known since the late 1970s. Even after the law was enacted, no company was willing to develop the drug for the commercial market because they believed it would not be profitable enough.

During the 1980s, the FDA's Office for Orphan Products Development funded a research grant to an academic scientist for a small clinical trial of sodium oxybate. After several years, he published the study, which raised the expectations of the narcolepsy community. Still no company was interested. We turned to the generic drug industry, and a generic manufacturer agreed to adopt the drug. He spent about five years stabilizing the compound but did not launch a new clinical trial. Finally that company was merged with another, so FDA again sought a new sponsor. Orphan Medical stepped in where no other company was willing to tread.

About that time, the drug began to appear in health food stores with bogus muscle building claims. But the one thing sodium oxybate does very well is put people to sleep. When young people started arriving at emergency rooms, doctors realized they were in a deep sleep, and they started raising warnings. FDA eventually ordered the supplement off the market when it became associated with the "date rape" drugs. DEA wanted to make it illegal for all uses, without regard to it's valid medical use for narcolepsy. We pointed out that none of the illegal use of the drug was associated with the pharmaceutical formulation, and instructions for making sodium oxybate are on the Internet. Therefore, the FDA and DEA cannot stop use of the compound unless they take the instructions off the Internet.

Alpha One Foundation Association an Brain Tumor Association can Laryngeal Papilloma Foundation American Porphyria Foundation American Syringomyelia Alliance Project Aplastic Anemia Foundation of America Association for Glycogen Storage Disease Association of Gastrointestinal Motility Batten Disease Support & Research Benign Essential Blepharospasm Research Foundation, Inc. Charcot-Marie-Tooth Association Chromosome 18 Registry and Research Society
Cleft Palate Foundation Cornelia de Lange Syndrome Foundation, Inc.
Cystinosis Foundation, Inc. Dysautonomia Foundation, Inc. Dystonia Medical Research Foundation Dystrophic Epidermolysis Bullosa Research Association (D.E.B.R.A.)
Ehlers-Danlos National Foundation Epilepsy Foundation of America Families of Spinal Muscular Atrophy Families of Spinial Muscular Arrophy Foundation Fighting Blindness Foundation for Ichthyosis & Related Skin Types (F.I.R.S.T.) Genetic Alliance Guillain-Barre Syndrome Foundation International HHT Foundation International, Inc. Hemochromatosis Foundation, Inc.

MEMBER ORGANIZATIONS Alpha One Antitrypsin Deficiency

National Association

America, Inc Immune Deficiency Foundation International Fibrodysplasia Ossificans
Progressiva (FOP) Association, Inc. International Joseph Diseases Foundation, Inc.

Histiocytosis Association of America Huntington's Disease Society of

International Rett Syndrome Association Interstitial Cystitis Association of America, Inc. Lowe Syndrome Association Mastocytosis Society

'henia Gravis Foundation

proliferative Disease Research Center is Association of America Mucolipidosis Type IV Foundation (ML4) Narcolepsy Network, Inc. National Adrenal Diseases Foundation National Alopecia Areata Foundation National Ataxia Foundation

National Foundation for Ectodermal National Hemophilia Foundation National Incontinentia Pigmenti Foundation National Marfan Foundation National Mucopolysaccharidoses Society, Inc. National Multiple Sclerosis Society National Neurofibromatosis Foundation National PKU News National Spagnen's Syndrome Association
National Spasmodic Torticollis Association National Tay-Sachs & Allied Diseases Association, Inc.

National Urea Cycle Disorders Foundation Neurofibromatosis, Inc. Osteogenesis Imperfecta Foundation Parkinson's Disease Foundation, Inc. Prader-Willi Syndrome Association

Pulmonary Hypertension Association PXE International, Inc. Reflex Sympathetic Dystrophy Syndrome

Scleroderma Foundation, Inc. Sickle Cell Disease Association of America, Inc. Sturge Weber Foundation

The Paget Foundation The Steven Johnson Foundation Tourette Syndrome Association, Inc. Trigeminal Neuralgia Association United Leukodystrophy Foundation, Inc. United Mitochondrial Disease Foundation VHL Family Alliance

Wegener's Granulomatosis Support

Group, Inc. Williams Syndrome Association Wilson's Disease Association

Acid Maltase Deficiency Association AI S Association/Greater Philadelphia

an Autoimmune Related Diseases

American Behoet's Disease Association. inc. American Self-Help Clearinghouse

Angel view Crippled Children's

Ataxia Telangiectasia Children's Project CDGS Family Network
Canadian Organization for Rare Disorders Children's Living with Inherited Metobolic Childern's Medical Library Children's PKU Network
Chromosome Deletion Outreach, Inc.

Chronic Granulomatous Disease Association Inc. Association, inc.
Consortium of Multiple Sclerosis Centers
Contact A Family
Cooley's Anemia Foundation Cushing Support & Research Foundation Family Caregiver Alliance
Family Support System for North Carolina Freeman-Sheldon Parent Support Group Hydrocephalus Association International Foundation for Alternating

Associate Members

Hemiplegia of Childhood Klippel-Trenaunay Support Group Late Onset Tay-Sachs Foundation Les Turner ALS Foundation, Inc. National Association for Pseudoxanthoma Elasticum National Gaucher Foundation

National Lymphedema Network National Niemann-Pick Disease

National Patient Air Transport Helpline National Spasmodic Dysphonia Association Organic Acidemia Association

Osteoporosis and Related Bone Diseases Parents Available to Help (PATH)
Parent to Parent of New Zealand Rare and Expensive Disease Management

Program
Recurrent Respiratory Papillomatosis

Restless Legs Syndrome Foundation

Shwachman Syndrome Support Group Sickle Cell Disease Assocation of Texas Gulf Coast Society For Progressive Supranuclear

Sotos Syndrome Support Association Takayasu's Arteritis Association Taiwan Foundation for Rare Disorder Treacher Collins Foundation

Associations are joining continuously. For newest listing, please contact the NORD office.

Now after more than 20 years, the studies are done and Orphan Medical has submitted an NDA for approval of sodium oxybate for narcolepsy and cataplexy. People with the most severe form of narcolepsy need this orphan drug desperately. The question is safety of a distribution process that will assure it gets into the hands of patients who need it, and not to the young people who will use it for the wrong purpose.

Keep in mind that people with narcolepsy currently struggle with an inequitable distribution system for amphetamines. If they need Ritalin or Dexedrine, they usually have to tell their pharmacist days in advance because most pharmacies do not want to stock those drugs. They cannot order amphetamines through the mail, and in many states they are forced to see their doctor more than medically necessary in order to get new prescriptions. It is not easy to have a disease that is treated with medicines that have potential for abuse.

I submit that safe distribution systems can be implemented, notwithstanding the Internet. Unless law enforcement and Congress are willing to take the information off the World Wide Web, those who misuse sodium oxybate will be able to continue manufacturing it in their kitchen sink. We already have good models for controlled distribution of prescription drugs, and these are the models that this committee should consider.

The best model is probably thalidomide, a drug that matches no other in the history of medicine in terms of horror, but is nevertheless an approved orphan drug on the American market today. Doctors who prescribe it, and pharmacies that dispense it, register with the manufacturer so that every pill can be monitored and traced in the distribution system. Another important drug is Clozaril for schizophrenia. That drug also is carefully distributed through registered pharmacies, and patients have to prove that they received a satisfactory blood test before their next weekly prescription is dispensed. Our primary concern about these systems is that manufacturers should not be privy to patients' names and addresses. An independent party should guard personally identifiable information.

Both Thalidomide and Clozaril have been approved by the FDA and successfully marketed in the United States even though their distribution is tightly controlled. For serious diseases that do not respond to other therapies, it is incumbent on FDA to find safe ways to get the treatments to the patients who need them. Narcolepsy with cataplexy is a very serious disease, as dangerous as epilepsy because patients lose consciousness suddenly and uncontrollably. We know the most important rule of medicine is, "First, do no harm". To deny this drug to people with cataplexy will do harm to them. We ask you to allow this drug to get to market with a carefully controlled distribution system so we can put this nightmarish saga of sodium oxybate behind us and let these patients get back to living productive lives.

Thank you.